

O I P E J C
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PATENT & TRADEMARK

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CPA Y0999-459

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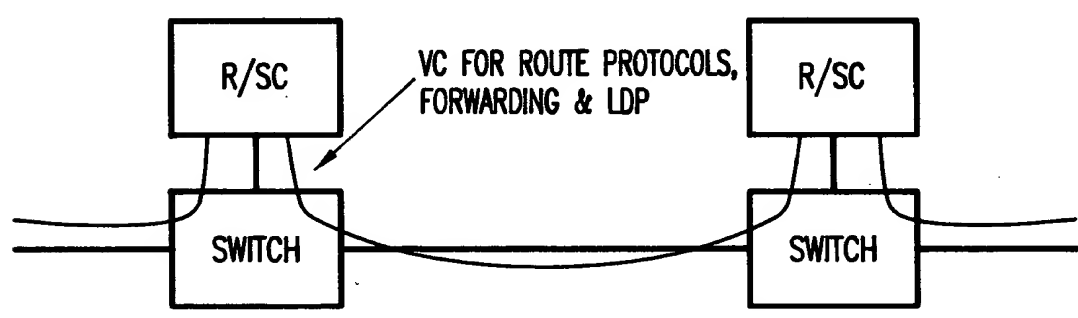


FIG.1 PRIOR ART

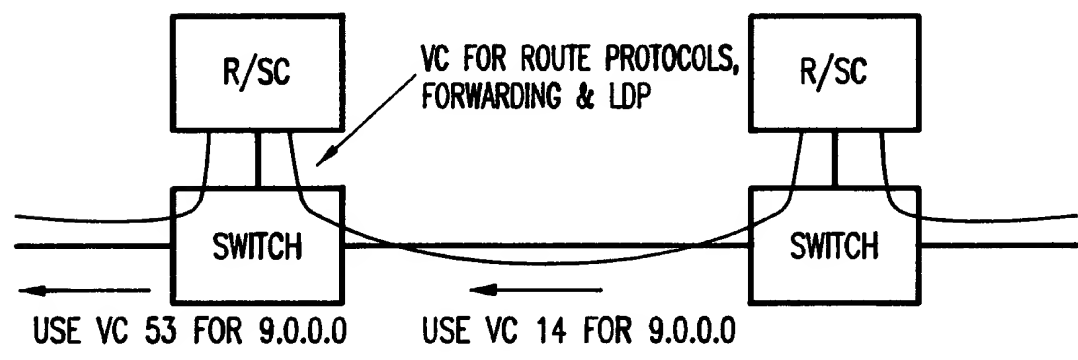


FIG.2 PRIOR ART

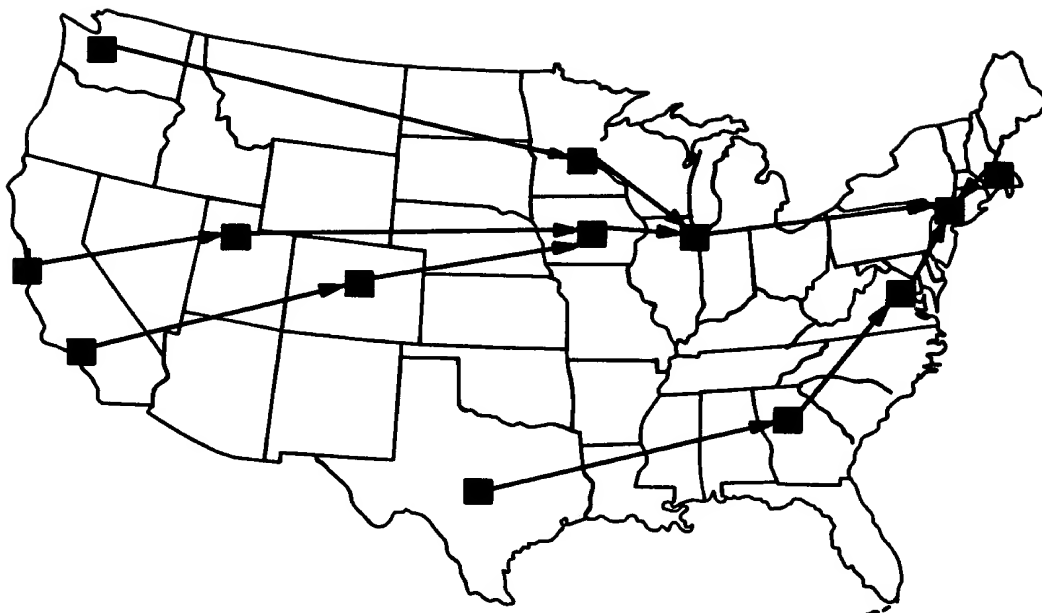


FIG.3 **PRIOR ART**

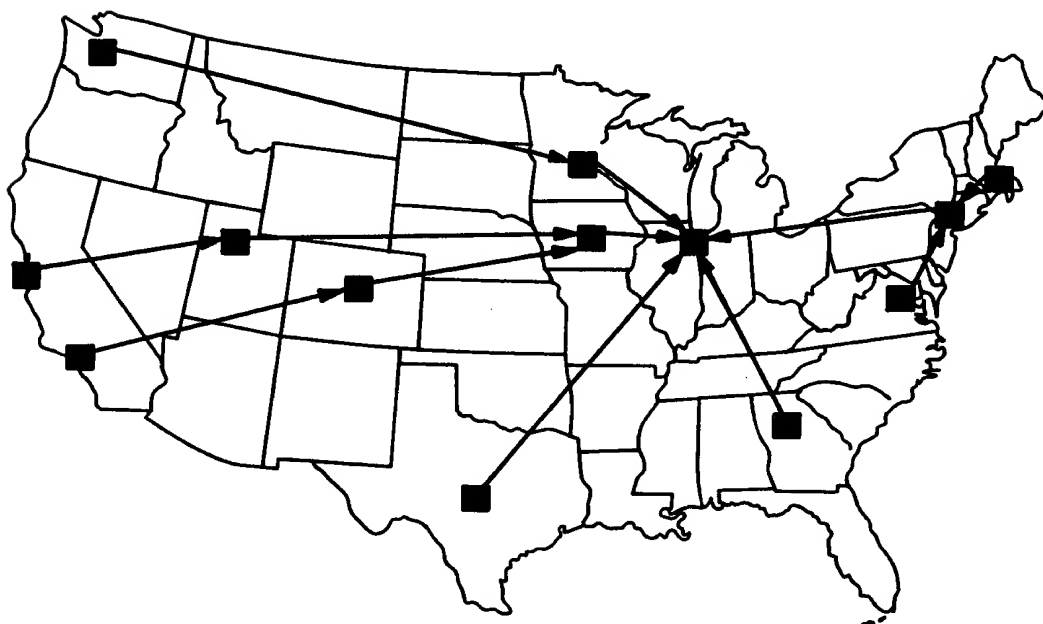


FIG.4

50

51 INPUT PORTS

0

1

2

16 FIBER BUNDLES

52 MERGING OPTICAL FIBERS

53 WAVELENGTH SEPARATOR

53A 2-D ARRAY

STEERING MECHANISM

56 CONTROLLER

54

55 OUTPUT PORTS

1 FIBER BUNDLE (CONTAINS MANY FIBERS)

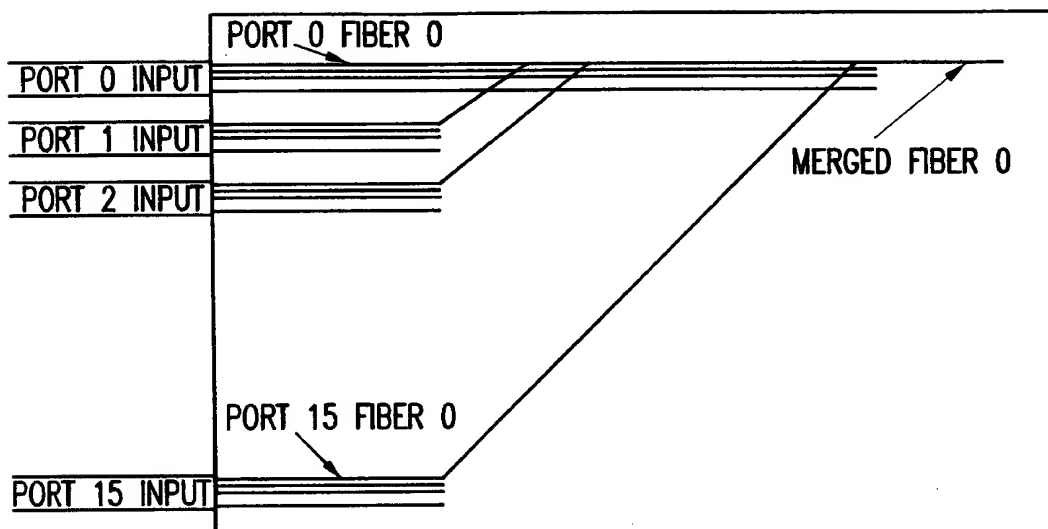


FIG.6

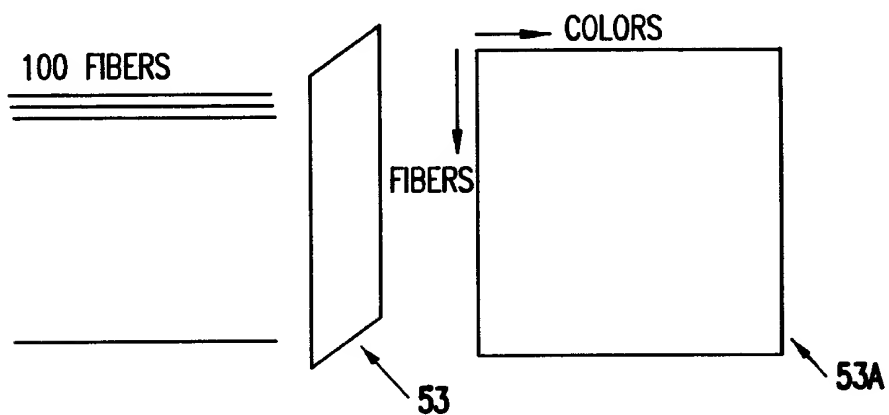


FIG.7

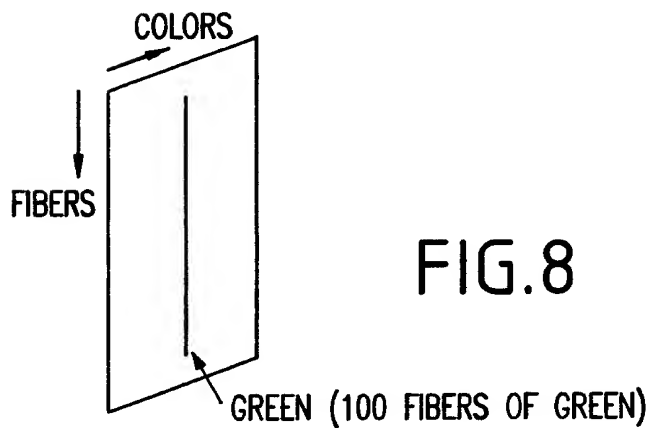


FIG.8

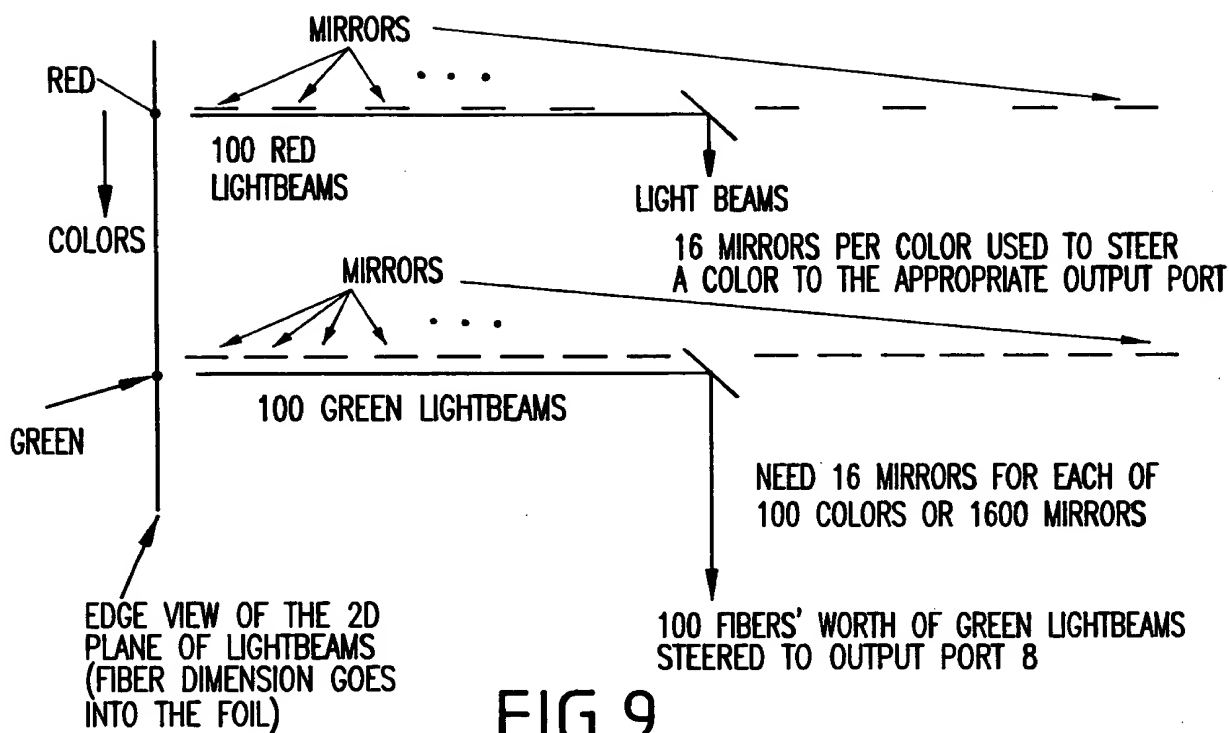


FIG. 9

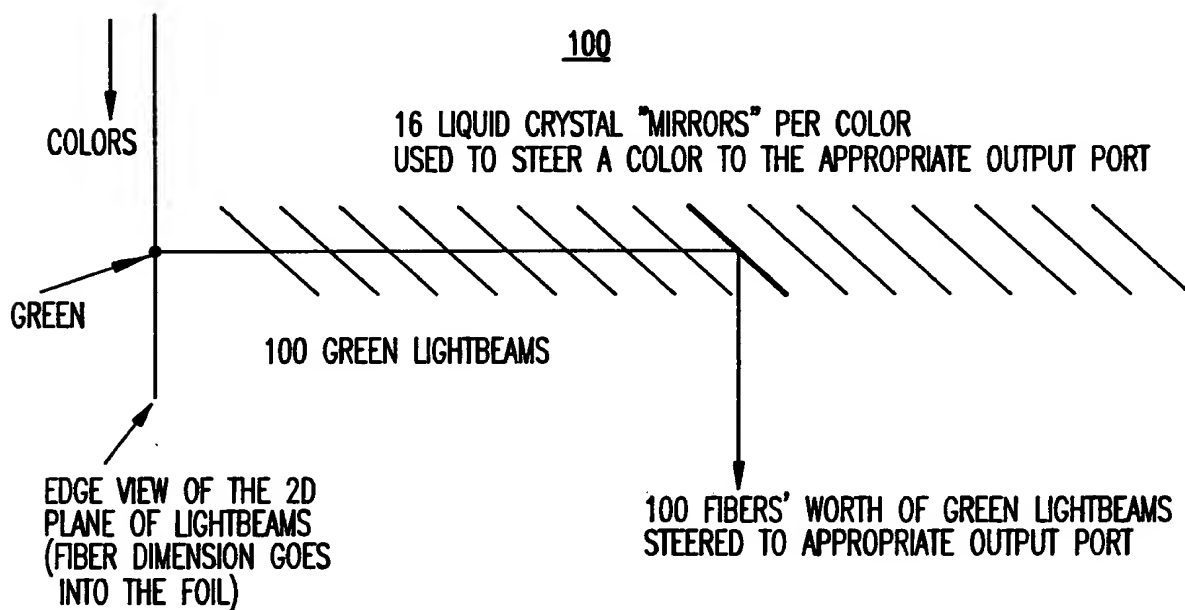


FIG. 10

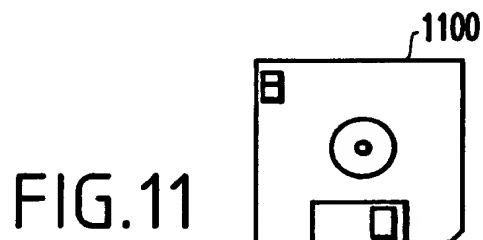


FIG. 11